Bruno Bousquet

List of Publications by Year in descending order

56 papers	3,001 citations	172457 29 h-index	161849 54 g-index
56 all docs	56 docs citations	56 times ranked	3014 citing authors

#	Article	IF	Citations
1	Good practices in LIBS analysis: Review and advices. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2014, 101, 171-182.	2.9	247
2	Review of Terahertz Tomography Techniques. Journal of Infrared, Millimeter, and Terahertz Waves, 2014, 35, 382-411.	2.2	201
3	Silver Clusters Embedded in Glass as a Perennial High Capacity Optical Recording Medium. Advanced Materials, 2010, 22, 5282-5286.	21.0	200
4	Laser-Induced Breakdown Spectroscopy of Composite Samples:Â Comparison of Advanced Chemometrics Methods. Analytical Chemistry, 2006, 78, 1462-1469.	6.5	167
5	Qualitative and quantitative investigation of chromium-polluted soils by laser-induced breakdown spectroscopy combined with neural networks analysis. Analytical and Bioanalytical Chemistry, 2006, 385, 256-262.	3.7	150
6	Review in terahertz spectral analysis. TrAC - Trends in Analytical Chemistry, 2013, 44, 98-105.	11.4	149
7	Optical Properties of Zinc Oxide Nanoparticles and Nanorods Synthesized Using an Organometallic Method. ChemPhysChem, 2006, 7, 2392-2397.	2.1	146
8	Towards quantitative laser-induced breakdown spectroscopy analysis of soil samples. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2007, 62, 1582-1589.	2.9	115
9	Three-dimensional optical data storage using third-harmonic generation in silver zinc phosphate glass. Optics Letters, 2008, 33, 360.	3.3	102
10	Glass Structure and Optical Nonlinearities in Thallium(I) Tellurium(IV) Oxide Glasses. Journal of Solid State Chemistry, 1999, 146, 329-335.	2.9	98
11	Critical review and advices on spectral-based normalization methods for LIBS quantitative analysis. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2019, 160, 105688.	2.9	92
12	Beat the diffraction limit in 3D direct laser writing in photosensitive glass. Optics Express, 2009, 17, 10304.	3.4	86
13	3D Patterning at the Nanoscale of Fluorescent Emitters in Glass. Journal of Physical Chemistry C, 2010, 114, 15584-15588.	3.1	76
14	Chemometrics Applied to Quantitative Analysis of Ternary Mixtures by Terahertz Spectroscopy. Analytical Chemistry, 2014, 86, 4927-4933.	6.5	71
15	Exploration of megapixel hyperspectral LIBS images using principal component analysis. Journal of Analytical Atomic Spectrometry, 2018, 33, 210-220.	3.0	67
16	Luminescence properties of silver zinc phosphate glasses following different irradiations. Journal of Luminescence, 2009, 129, 1514-1518.	3.1	59
17	Application of a series of artificial neural networks to on-site quantitative analysis of lead into real soil samples by laser induced breakdown spectroscopy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2014, 97, 57-64.	2.9	58
18	Elemental imaging by laser-induced breakdown spectroscopy for the geological characterization of minerals. Journal of Analytical Atomic Spectrometry, 2018, 33, 1345-1353.	3.0	57

#	Article	IF	Citations
19	Listening to laser sparks: a link between Laser-Induced Breakdown Spectroscopy, acoustic measurements and crater morphology. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2019, 153, 50-60.	2.9	57
20	Improvement of the sensitivity for the measurement of copper concentrations in soil by microwave-assisted laser-induced breakdown spectroscopy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2012, 73, 89-92.	2.9	55
21	Development of a mobile system based on laser-induced breakdown spectroscopy and dedicated to in situ analysis of polluted soils. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2008, 63, 1085-1090.	2.9	54
22	Time-resolved and time-integrated single-shot laser-induced plasma experiments using nanosecond and femtosecond laser pulses. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2004, 59, 1033-1039.	2.9	52
23	Polarization errors associated with zero-order achromatic quarter-wave plates in the whole visible spectral range. Optics Express, 2001, 9, 225.	3.4	47
24	In Situ Semi-Quantitative Analysis of Polluted Soils by Laser-Induced Breakdown Spectroscopy (LIBS). Applied Spectroscopy, 2011, 65, 467-473.	2.2	45
25	Post-landing major element quantification using SuperCam laser induced breakdown spectroscopy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2022, 188, 106347.	2.9	40
26	Effects of deep wet etching in HF/HNO_3 and KOH solutions on the laser damage resistance and surface quality of fused silica optics at 351 nm. Optics Express, 2017, 25, 4607.	3.4	38
27	Coherent broadband pulse shaping in the mid infrared. Optics Letters, 2001, 26, 743.	3.3	35
28	Roughness effects on the hydrogen signal in laser-induced breakdown spectroscopy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2017, 137, 13-22.	2.9	34
29	Investigations of laser-induced plasma in argon by Thomson scattering. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2011, 66, 691-697.	2.9	30
30	Critical aspects of data analysis for quantification in laser-induced breakdown spectroscopy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2018, 140, 54-64.	2.9	30
31	Robust optimization of the laser induced damage threshold of dielectric mirrors for high power lasers. Optics Express, 2018, 26, 11764.	3.4	30
32	Laser-induced breakdown spectroscopy for elemental characterization of calcitic alterations on cave walls. Environmental Science and Pollution Research, 2017, 24, 2197-2204.	5.3	27
33	Characterization of the Polishingâ€Induced Contamination of Fused Silica Optics. Journal of the American Ceramic Society, 2017, 100, 96-107.	3.8	26
34	Quantitative Analysis of Hexahydro-1,3,5-trinitro-1,3,5, Triazine/Pentaerythritol Tetranitrate (RDXâ€“PETN) Mixtures by Terahertz Time Domain Spectroscopy. Applied Spectroscopy, 2015, 69, 1464-1471.	2.2	25
35	Recording laser-induced sparks on Mars with the SuperCam microphone. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2020, 174, 106000.	2.9	25
36	Variables selection: A critical issue for quantitative laser-induced breakdown spectroscopy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2017, 134, 6-10.	2.9	24

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37	Precise measurements and analysis of linear and nonlinear optical properties of glass materials near 1.5 Î¼m. Optics Communications, 1998, 151, 241-246.	2.1	21
38	Advanced statistical analysis of LIBS spectra for the sourcing of obsidian samples. Journal of Analytical Atomic Spectrometry, 2019, 34, 867-873.	3.0	19
39	Local thermodynamic equilibrium and related metrological issues involving collisional-radiative model in laser-induced aluminum plasmas. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2009, 64, 931-937.	2.9	17
40	Influence of absorption-edge properties on subpicosecond intrinsic laser-damage threshold at 1053 nm in hafnia and silica monolayers. Optics Express, 2019, 27, 16922.	3.4	16
41	Multi-block analysis coupled to laser-induced breakdown spectroscopy for sorting geological materials from caves. Talanta, 2016, 159, 287-291.	5.5	15
42	Should we prefer inverse models in quantitative LIBS analysis?. Journal of Analytical Atomic Spectrometry, 2020, 35, 794-803.	3.0	13
43	Laser induced fluorescence imaging: application to groups of macroalgae identification. Journal Physics D: Applied Physics, 2001, 34, 2561-2571.	2.8	11
44	Error analysis and calibration of a spectroscopic Mueller matrix polarimeter using a short-pulse laser source. Measurement Science and Technology, 2002, 13, 1563-1573.	2.6	11
45	Unexpected temporal evolution of atomic spectral lines of aluminum in a laser induced breakdown spectroscopy experiment. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2014, 101, 330-334.	2.9	11
46	Guideline for increasing the analysis quality in laser-induced breakdown spectroscopy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2019, 161, 105696.	2.9	11
47	Third-Harmonic Generation Microscopy for Material Characterization. Journal of the Optical Society of Korea, 2006, 10, 188-195.	0.6	8
48	Variable selection in laser-induced breakdown spectroscopy assisted by multivariate analysis: An alternative to multi-peak fitting. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2019, 152, 6-13.	2.9	7
49	Chemometrics applied to cathodoluminescence images: a new approach to classify pre-Columbian artefacts from northern Peru. Environmental Science and Pollution Research, 2017, 24, 2205-2209.	5.3	6
50	Variability and sampling strategy of cave wall concretion: Case study of the moonmilk found in Leye Cave (Dordogne). Archaeometry, 2019, 61, 327-341.	1.3	5
51	Extending the potential of plasma-induced luminescence spectroscopy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2021, 177, 106111.	2.9	5
52	Photons and electrons for the study of a white veil covering some walls in prehistoric caves. Acta IMEKO (2012), 2017, 6, 82.	0.7	4
53	Phase measurement in a collinear pump probe experiment: Application to molecular dynamics studies in liquids. Journal of Chemical Physics, 1998, 109, 7319-7327.	3.0	3
54	Fluorescence-based knife-edge beam diameter measurement to characterize X-ray beam profiles in reflection geometry. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2016, 118, 98-101.	2.9	2

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55	Angular dependence of filament-induced plasma emission from a GaAs surface. Optics Letters, 2015, 40, 4548.	3.3	1
56	CaractÃ©risation et optimisation de matÃ©riaux non-linÃ©aires. Application Ã la technologie des tÃ©lÃ©communications. Annales De Physique, 1995, 20, 617-618.	0.2	0